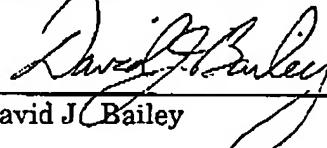


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

I hereby certify that this correspondence is being sent via facsimile to the
Commissioner of Patents and Trademarks, Washington, D.C. 20231 on January 31,
2003.

3-13-03


David J. Bailey

18

Applicant : Kalu K. Vasoya, et al.
Application No. : 10/020,506
Filed : December 11, 2001
Title : LIGHTWEIGHT CIRCUIT BOARD WITH
CONDUCTIVE CONSTRAINING CORES

Grp./Div. : 2831 1775
Examiner : L. Chew L. Xu
Docket No. : 47490/RAG/S968

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PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Post Office Box 7068
Pasadena, CA 91109-7068
January 31, 2003

Commissioner:

In the Claims:

Please cancel claims 1 - 55, and add new claims 56 - 67.

*Sub B
JUL 1*

56. A printed wiring board, comprising:
at least one carbon containing layer; and
at least one electrically conductive layer;
whereas at least one electrical connection exists between the
carbon containing layer and the electrically conductive layer.